

UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Service
Entomology Research Branch
Curacao, N. A.

OCT 7 1954

October 4, 1954

To: R. C. Bushland

From: A. H. Baumhover

Subject: Weekly report - Curacao

Egg masses were collected only at pen #5 this week, as follows:

Date	F	S
9/27	0	2
28	0	3
29	0	3
30	0	1
10/1	0	0
2	0	2
3	0	1
	12	

This record is extremely puzzling and I have no explanation to offer. Two of the egg masses consisted of abnormal eggs and 2 other egg masses appeared normal except for their very small size, approximately 15 eggs each.

STERILE MALES RELEASED

9/28	12,735
9/29	6,180
9/30	23,400
10/1	29,770
10/2	31,150
Total	103,235

cc: A. W. Lindquist
G. W. Eddy
A. J. Graham

A. H. Baumhover

UNITED STATES DEPARTMENT OF AGRICULTURE
 Agricultural Research Service
 Entomology Research Branch
 Curacao, N. A.

October 4, 1954

To: R. C. Bushland

From: A. H. Baumhover

Subject: Weekly report - Curacao

Egg masses were collected only at pen #5 this week, as follows:

Date	F	S
9/27	0	2
9/28	0	3
9/29	0	3
9/30	0	1
10/1	0	0
10/2	0	2
10/3	0	1
10/4	0	1
10/5	0	1
10/6	0	1
10/7	0	1
10/8	0	1
10/9	0	1
10/10	0	1
10/11	0	1
10/12	0	1
10/13	0	1
10/14	0	1
10/15	0	1
10/16	0	1
10/17	0	1
10/18	0	1
10/19	0	1
10/20	0	1
10/21	0	1
10/22	0	1
10/23	0	1
10/24	0	1
10/25	0	1
10/26	0	1
10/27	0	1
10/28	0	1
10/29	0	1
10/30	0	1
10/31	0	1
11/1	0	1
11/2	0	1
11/3	0	1
11/4	0	1
11/5	0	1
11/6	0	1
11/7	0	1
11/8	0	1
11/9	0	1
11/10	0	1
11/11	0	1
11/12	0	1
11/13	0	1
11/14	0	1
11/15	0	1
11/16	0	1
11/17	0	1
11/18	0	1
11/19	0	1
11/20	0	1
11/21	0	1
11/22	0	1
11/23	0	1
11/24	0	1
11/25	0	1
11/26	0	1
11/27	0	1
11/28	0	1
11/29	0	1
11/30	0	1
12/1	0	1
12/2	0	1
12/3	0	1
12/4	0	1
12/5	0	1
12/6	0	1
12/7	0	1
12/8	0	1
12/9	0	1
12/10	0	1
12/11	0	1
12/12	0	1
12/13	0	1
12/14	0	1
12/15	0	1
12/16	0	1
12/17	0	1
12/18	0	1
12/19	0	1
12/20	0	1
12/21	0	1
12/22	0	1
12/23	0	1
12/24	0	1
12/25	0	1
12/26	0	1
12/27	0	1
12/28	0	1
12/29	0	1
12/30	0	1
12/31	0	1

This record is extremely puzzling and I have no explanation to offer.
 Two of the egg masses consisted of abnormal eggs and 2 other egg
 masses appeared normal except for their very small size, approximately
 15 eggs each.

STERILE MALES RELEASED

Date	Released
9/28	12,735
9/29	6,180
9/30	22,400
10/1	29,770
10/2	31,180
Total	108,235

cc: A. W. Lindquist
 G. W. Eddy
 A. J. Graham

A. H. Baumhover

UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Service
Entomology Research Branch

Postbox 85, Curacao, N.A.

October 11, 1954

To: R. C. Bushland

From: A. H. Baumhover

Subject: Weekly report - Curacao.

Egg masses collected 10/4-10 inc.: NONE.

STERILE MALES RELEASED

10/4	34,050
10/8	27,100
10/9	<u>21,100</u>
Total	82,250

Weather conditions this week have been somewhat unusual due to the influence of the hurricane "Hazel". From 3 to 9 inches of rain were unofficially reported over the island on the 7th and 8th with the rainfall being considerably heavier on the southern half of the island than on the northern half. As a result of the heavy rain 2 goats each with attractive wounds died at pens #4 and #5. Although other goats in these pens had small wounds the level of attractiveness was temporarily reduced below the desired level.

cc: A. W. Lindquist
A. J. Graham
G. W. Eddy

A. H. Baumhover

OCT 13 1954

UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Service
Entomology Research Branch

Postbox 85, Curacao, N.A.

October 11, 1954

To: R. C. Bawland

From: A. H. Baumhauer

Subject: Weekly report - Curacao.

Egg masses collected 10/4-10 inc.: NONE.

STERILE MALES RELEASED

10/4	34,050
10/8	27,100
10/9	21,100
Total	82,250

Weather conditions this week have been somewhat unusual due to the influence of the hurricane "Hazel". From 3 to 9 inches of rain were unofficially reported over the island on the 7th and 8th with the rainfall being considerably heavier on the southern half of the island than on the northern half. As a result of the heavy rain 2 goats each with attractive wounds died at pens #4 and #5. Although other goats in these pens had small wounds the level of attractiveness was temporarily reduced below the desired level.

cc: A. W. Lindquist
A. J. Graham
G. W. Eddy

A. H. Baumhauer

UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Service
Entomology Research Branch

OCT 21 1954

Postbox 85, Curacao, N.A.

October 18, 1954

To: Dr. R. C. Bushland

From: A. H. Baumhover

Subject: Weekly report - Curacao

Egg mass collections 10/11-17: NONE

STERILE MALES RELEASED

10/12	32,040
10/13	21,530
10/15	<u>70,030</u>

Total	123,600
-------	---------

We received the second call this morning reporting what might be a screw-worm case. The goat in question had wart-like, foul smelling growths on all feet and on its lips. *Macellaria* larvae in various stages of growth were present, but no screw-worms.

Several of the stock owners have been amazed at the number of young goats surviving. Many of the goats have 2 or 3 young where heretofore only 1 or 2 or none survived.

The weather here has continued rainy and cloudy, with showers falling almost every day.

cc: A. W. Lindquist
A. J. Graham
G. W. Eddy

A. H. Baumhover

OCT 21 1954

UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Service
Entomology Research Branch

Postbox 85, Curacao, N.A.

October 18, 1954

To: Dr. R. C. Bushland

From: A. H. Baumhover

Subject: Weekly report - Curacao

See mass collections 10/11-15: NONE

STERILE MALES RELEASED

10/13	32,040
10/13	21,530
10/13	70,030
Total	123,600

We received the second call this morning reporting what might be a screw-worm case. The goat in question had wart-like, foul smelling growths on all feet and on its lips. Mucous larvae in various stages of growth were present, but no screw-worms.

Several of the stock owners have been amazed at the number of young goats surviving. Many of the goats have 2 or 3 young where heretofore only 1 or 2 or none survived.

The weather here has continued rainy and cloudy, with showers falling almost every day.

cc: A. W. Lindquist
A. J. Graham
G. W. Eddy

A. H. Baumhover

OCT 25 1954

10/22/54

Postbox 85

Curacao, N.A.

To A.W. Lindquist

From: A.H. Baumhover

Subject: Midweek report

No egg masses collected

October 18 thru 21

A.H. Baumhover

cc R.C.B. Ashland

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH ADMINISTRATION
BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Service
Entomology Research Branch

Postbox 85, Curacao, N. A.

October 25, 1954

To: R. C. Bushland

From: A. H. Baumhover

Subject: Weekly report - Curacao; your memo 10/18 to Dr. Lindquist.

Egg mass collections 10/18-24/54: NONE

STERILE MALES RELEASED

10/19	25,750
10/21	27,200
10/22	<u>45,140</u>

Total 98,090

Notes
We have discussed the date when Mr. New might be relieved of his duties on Curacao. Previously Mr. Bitter had mentioned that he might be changing to a new job November 1st and would not be able to spend as much time on the screw-worm project as formerly.

However, he reviewed the situation today with his superiors and they are willing that Mr. Bitter continue full time with us until December 1st. Therefore I think Mr. New can proceed to Orlando any time after a reply is received from you. Perhaps November 5th would be a suitable date for his departure from Curacao.

Mr. New has carried out his duties on Curacao very well and has shown his usual initiative and dependability and will be sorely missed. However, Mr. Bitter and I feel that we can carry on alone. I'm sure that Mr. New's assistance at Orlando will do much to give some of the personnel there a few days of well-deserved rest.

My willingness to agree to Mr. New's early return to Orlando is tempered by the confidence that we will not collect another normal egg mass on Curacao while the releases are continued and for at least a month after the termination of the releases. If, after the termination of the releases following an 8 week's period of no egg masses, fly activity should be again noted a month or two later, perhaps the possibility that the screw-worms had not been eradicated would be no greater than the possibility that they had been re-introduced through livestock shipments. At any rate I feel that the current data is sufficiently encouraging that there is little doubt that further work is justified, even tho our four months of intensive releases might not result in eradication. However, I feel that our chances for eradication, even in this short time, are excellent.

UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Service
Entomology Research Branch

Postbox 85, Curacao, N. A.

October 25, 1954

To: R. C. Bushland

From: A. H. Baumhover

Subject: Weekly report - Curacao; your memo 10/18 to Dr. Lindquist.

Egg mass collections 10/18-24/54: NONE

STERILIZED MALES RELEASED

10/18	25,750
10/21	27,200
10/22	45,140
Total	98,090

We have discussed the date when Mr. New might be relieved of his duties on Curacao. Previously Mr. Bitter had mentioned that he might be changing to a new job November 1st and would not be able to spend as much time on the screw-worm project as formerly. However, he reviewed the situation today with his superiors and they are willing that Mr. Bitter continue full time with us until December 1st. Therefore I think Mr. New can proceed to Orlando any time after a reply is received from you. Perhaps November 5th would be a suitable date for his departure from Curacao.

Mr. New has carried out his duties on Curacao very well and has shown his usual initiative and dependability and will be sorely missed. However, Mr. Bitter and I feel that we can carry on alone. I'm sure that Mr. New's assistance at Orlando will do much to give some of the personnel there a few days of well-deserved rest.

My willingness to agree to Mr. New's early return to Orlando is tempered by the confidence that we will not collect another normal egg mass on Curacao while the releases are continued and for at least a month after the termination of the releases. If, after the termination of the releases following an 8 week's period of no egg masses, fly activity should be again noted a month or two later, perhaps the possibility that the screw-worms had not been eradicated would be no greater than the possibility that they had been re-introduced through livestock shipments. At any rate I feel that the current data is sufficiently encouraging that there is little doubt that further work is justified, even the four months of intensive releases might not result in eradication. However, I feel that our chances for eradication, even in this short time, are excellent.

2-R.C.Bushland-10/25/54

I agree that continuing the release at the 400 rate would be preferable to the 200 rate since time seems to be an important factor in the current experiment. Certainly the 400 rate would allow an earlier termination date than the 200 rate. And certainly our chance for success would be greater if the releases were continued for 8 weeks after the last recorded egg mass than for a shorter time.

Fortunately, there have been collected no egg masses at all during the past 3 weeks which could possibly be screw-worm egg masses. Perhaps there is 1 chance in a million that a 7500 r female might lay a normal-appearing egg mass on one of the wounded goats, but as each day passes without a collection that possibility seems more remote than before. As I see it the risk of eventually collecting an egg mass from a 7500 r female is as unknown as the risk of increasing the dosage to 10,000 r. If normal-appearing egg masses do appear there will be no way of definite identification without tagging. However, if a screw-worm case is yet to occur on Curacao in the vicinity of one of the goat pens chances are that 6 to 10 egg masses may be collected at this pen over a several day period, whereas if a few of the released females were to lay, the egg masses might possibly be collected more randomly with perhaps 1 or 2 masses being collected at 1 or more pens.

cc: A. W. Lindquist
A. J. Graham
G. W. Eddy

A. H. Baumhauer

I agree that continuing the release at the 400 rate would be preferable to the 200 rate since time seems to be an important factor in the current experiment. Certainly the 400 rate would allow an earlier termination date than the 200 rate. And certainly our chance for success would be greater if the releases were continued for 8 weeks after the last recorded egg mass than for a shorter time.

Fortunately, there have been collected no egg masses at all during the past 3 weeks which could possibly be screw-worm egg masses. Perhaps there is a chance in a million that a 7500 r female might lay a normal-appearing egg mass on one of the wounded goats, but as each day passes without a collection that possibility seems more remote than before. As I see it the risk of eventually collecting an egg mass from a 7500 r female is as unknown as the risk of increasing the dosage to 10,000 r. If normal-appearing egg masses do appear there will be no way of definite identification without tagging. However, if a screw-worm case is yet to occur on Curacao in the vicinity of one of the goat pens chances are that 5 to 10 egg masses may be collected at this pen over a several day period, whereas if a few of the released females were to lay, the egg masses might possibly be collected more randomly with perhaps 1 or 2 masses being collected at 1 or more pens.

G. W. Eddy

cc: A. W. Lindquist
A. J. Graham
G. W. Eddy

Postbox 85
Curacao
10/29/54

57

NOV 1 1954

To: A. W. Lindquist
From: A. H. Baumhauer
Subject: Midweek Report

Egg masses collected

10/25 thru 10/28: None

cc. R. C. Bushland A. H. Baumhauer

